EdAI: Build AI Apps with Vibe Coding

Turn your ideas into working AI-powered apps and websites — no coding or CS background needed, just a real urge to build something impactful.

Course Overview

This in-person course is for college students and working professionals who want to turn their ideas into real AI-powered apps and websites without a CS background or prior coding experience. Participants learn through *vibe coding* — explaining what they want in plain language, then collaborating with AI to design, build, and refine working projects they can actually use and share in school, at work, or in their communities.

What You Will Learn

- How modern apps are put together: the basics of front end, back end, and databases, and how AI fits into that picture.
- How to use vibe coding to get AI to help you write, read, and fix code so you can start building quickly, even as a beginner.
- How to build 4–5 concrete projects, such as a personal portfolio site, a topic-based or homework-helper chatbot, a simple store or showcase app, and a project of your own choosing.
- How to explore and compare different AI tools and platforms (for example, chat-based tools, code assistants, and model APIs) and choose the right ones for your projects.
- How core AI models work at a basic level, including fully connected neural networks, convolutional neural networks, and transformers, without heavy math or theory.
- How to recognize what this course does *not* cover (advanced software engineering, deep math, or production-scale systems) so you know when you will need more specialized learning.

How the Course Works

- In-person, small-cohort sessions (maximum 7 students) meeting twice a week for 3 weeks, 2 hours per class (6:00–8:00 PM).
- Each class mixes a short, focused lesson with guided building time so you make progress on real projects every session.

- Across the course, you will complete 4–5 concrete projects, including a personal portfolio, a custom chatbot, a simple store or showcase app, and an additional project of your choice.
- Weekly office hours provide 1:1 support for questions, debugging, design feedback, and help turning your projects into portfolio-ready pieces.

Course Modules

Module 1: Your First App & How Apps Work
Build a simple interactive web page or mini app so everyone ships something in the first class, while learning a basic mental model of front end, back end, and databases and how AI can plug into each part. Students also start brainstorming a personal project they want to build over the course.

Module 2: Personal Portfolio Site
Build a personal portfolio website that tells your story as a student or professional, using AI to help with structure, content, and code cleanup. In the second half of class, apply the same steps to start a custom project of your choice (for example, a club site, personal brand page, or community project).

Module 3: Chatbots & AI Foundations (Part 1)
Build a chatbot around a topic you care about or a homework-helper with a specific style, while learning the basics of prompting and fully connected neural networks at an intuitive level. Then adapt the chatbot pattern to your own custom idea, such as a Q&A bot for a class, hobby, or cause.

Module 4: Store / Showcase App & AI Foundations (Part 2)
Build a simple store or showcase app for activities, services, or businesses, learning how to work with lists of items, simple filters, and user flows. Use remaining class time to extend your own project (for example, showcasing MAPS activities, a student service, or a side hustle) and connect this work to how convolutional neural networks support vision-related AI.

Module 5: Planner or Journal Tool & Transformers
Build either a study/task planner or a reflection/journal tool where AI helps generate prompts, break down work, or summarize progress, and learn the big-picture idea of transformers and why modern chatbots are powerful. Students continue evolving their personal project with this new pattern.

Module 6: Shipping, Storytelling & Limits
Polish and deploy all projects, then prepare short demos and write-ups suitable for portfolios, resumes, or LinkedIn. The class also discusses what this course does *not* cover — advanced math, deep software engineering, production-scale systems, or complex security — and where

to go next if you want to specialize.

Outcomes

By the end of the course, you will:

- Have built and deployed 4–5 AI-powered projects, including a personal portfolio site, a chatbot, a simple store or showcase app, and a project of your own choosing.
- Understand, at a practical level, how modern apps are structured (front end, back end, database) and how AI models plug into real workflows.
- Have an intuitive grasp of key AI model types — fully connected neural networks, convolutional neural networks, and transformers — and where you are likely to encounter them in tools you use.
- Feel confident using AI tools to help you plan, write, read, and debug code so you can keep building after the course ends.
- Have projects and language you can use in portfolios, resumes, and conversations about internships, promotions, or career transitions.

Who This Course Is For

This course is designed for college students and working professionals who:

- Have ideas for tools, apps, or websites but have never had the chance or confidence to build them.
- Are curious about AI and want to use it to speed up their work, studies, or side projects, not just read about it.

Who This Course Is Not For

This course is probably not a good fit if you:

- Already build full applications on your own and are comfortable shipping apps with a web framework and database.
- Want deep computer science, advanced math, or production-scale software engineering instead of beginner-friendly, hands-on building with AI.

- Are not interested in using AI to improve your studies, career, or projects, or feel that AI will not play a role in your work.

EdAI — Building with purpose, guided by values.